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60500528	Not Issued	020	09/05/2003	OPTICAL SEQUENTIAL IMAGING MEASUREMENT SYSTEM	MILINUSIC, TOMISLAV F.
60461037	Not Issued	020	04/07/2003	AUDIO FILE CONVERSION	MILINUSIC, TOMISLAV
60443464	Not Issued	159	01/29/2003	OPTICAL SEQUENTIAL IMAGING MEASUREMENT SYSTEM	MILINUSIC, TOMISLAV F.
60364460	Not Issued	159	03/15/2002	SUPER RESOLUTION IMAGING AND DISPLAY SYSTEM	MILINUSIC, TOMISLAV F.
60317635	Not Issued	159	09/06/2001	SURVEILLANCE SYSTEM	MILINUSIC, TOMISLAV F.
60305419	Not Issued	159	07/13/2001	LINEAR SCANNING CAMERA	MILINUSIC, TOMISLAV F.
60276752	Not Issued	159	03/17/2001	SUPER RESOLUTION IMAGING AND DISPLAY SYSTEM	MILINUSIC, TOMISLAV F.
60272192	Not Issued	159	02/28/2001	DIGITAL LIGHT PROJECTION SYSTEM	MILINUSIC, TOMISLAV F.
60269676	Not Issued	159	02/16/2001	SURVELLIANCE CAMERA SYSTEM	MILINUSIC, TOMISLAV F.
60269434	Not Issued	159	02/16/2001	SCANNING CAMERA AND SURVELLIANCE SYSTEM	MILINUSIC, TOMISLAV F.
60246952	Not Issued	159	11/10/2000	HIGH SPEED DATA COLLECTION AND SERVER	MILINUSIC, TOMISLAV F.
60240171	Not Issued	159	10/13/2000	SCANNING CAMERA AND DATA STORAGE SYSTEM	MILINUSIC, TOMISLAV F.
60211500	Not Issued	159	06/14/2000	HIGH RESOLUTION TELESCOPIC MULTI-SPECTRAL SCANNING IMAGING SYSTEM	MILINUSIC, TOMISLAV F.

60211400	Not Issued	159	06/14/2000	HIGH RESOLUTION IMMERSIVE SCANNING MULTI-SPECTRAL 3-D IMAGING SYSTEM	MILINUSIC, TOMISLAV F
60211385	Not Issued	159	06/14/2000	PROGRAMMABLE MULTI-FUNCTION NETWORKING, DATA STORAGE AND DATA ACQUISITION ACCELKLERATOR CIRCUITRY AND SOFTWARE	MILINUSIC, TOMISLAV F.
60198522	Not Issued	159	04/19/2000	PROGRAMMABLE MULTI-FUNCTION NETWORKING, DATA STORAGE AND DATA ACQUISITION ACCELLERATOR CIRCUITRY AND SOFTWARE	MILINUSIC, TOMISLAV F.
60198309	Not Issued	159	04/19/2000	HIGH RESOLUTION IMMERSIVE SCANNING MULTI-SPECIAL 3-D IMAGING SYSTEM	MILINUSIC, TOMISLAV F.
10768964	Not Issued	019	01/29/2004	METHOD AND APPARATUS FOR OPTICAL INERTIAL MEASUREMENT	MILINUSIC, TOMISLAV F.
10390496	Not Issued	020	03/17/2003	SUPER RESOLUTION IMAGING AND DISPLAY SYSTEM	MILINUSIC, TOMISLAV F.
10237203	Not Issued	020	09/06/2002	SURVEILLANCE SYSTEM DATA CENTER	MILINUSIC, TOMISLAV F.
10237202	Not Issued	030	09/06/2002	SURVEILLANCE SYSTEM CONTROL UNIT	MILINUSIC, TOMISLAV F.
10236819	Not Issued	030	09/06/2002	SECURITY DATA MANAGEMENT SYSTEM	MILINUSIC, TOMISLAV F.
10236720	Not Issued	030	09/06/2002	SENSOR DEVICE FOR USE IN SURVEILLANCE SYSTEM	MILINUSIC, TOMISLAV F.
10086400	6609798	150	02/28/2002	DIGITAL LIGHT PROJECTION SYSTEM	MILINUSIC, TOMISLAV F.
10079639	Not Issued	071	02/19/2002	SURVEILLANCE SYSTEM	MILINUSIC, TOMISLAV F.
09837916	Not Issued	030	04/18/2001	IMMERSIVE CAMERA SYSTEM	MILINUSIC, TOMISLAV F.
09837915	Not Issued	041	04/18/2001	SCANNING CAMERA SYSTEM	MILINUSIC, TOMISLAV F.
09823203	Not Issued	161	03/29/2001	DISTRIBUTION FILE STRUCTURE	MILINUSIC, TOMISLAV F.

09823193	Not Issued	160	03/29/2001	DATA DISTRIBUTION SYSTEM	MILINUSIC, TOMISLAV F.
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1 Wide-area monitoring of mobile objects: Energy-efficient surveillance system using wireless sensor networks   ■
Tian He, Sudha Krishnamurthy, John A. Stankovic, Tarek Abdelzaher, Liqian Luo, Radu Stoleru, Ting Yan, Lin Gu, Jonathan Hui, Bruce Krogh
June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services**

Full text available: 📄 pdf(850.60 KB)   Additional Information: full citation, abstract, references, citings, index terms

The focus of surveillance missions is to acquire and verify information about enemy capabilities and positions of hostile targets. Such missions often involve a high element of risk for human personnel and require a high degree of stealthiness. Hence, the ability to deploy unmanned surveillance missions, by using wireless sensor networks, is of great practical importance for the military. Because of the energy constraints of sensor devices, such systems necessitate an energy-aware design to ensu ...

Keywords: energy conservation, sensor networks, tracking, wireless

2 Self-configuring localization systems: Design and Experimental Evaluation   ■
Nirupama Bulusu, John Heidemann, Deborah Estrin, Tommy Tran
February 2004 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 3 Issue 1
Full text available: 📄 pdf(261.39 KB)   Additional Information: full citation, abstract, references, index terms

Embedded networked sensors promise to revolutionize the way we interact with our physical environment and require scalable, ad hoc deployable and energy-efficient node localization/positioning.This paper describes the motivation, design, implementation, and experimental evaluation (on sharply resource-constrained devices) of a *self-configuring* localization system using radio beacons. We identify beacon *density* as an important parameter in determining localization quality, which sat ...

Keywords: Location, localization, self-configuration, sensor networks

3 Sensor deployment and target localization in distributed sensor networks   ■
Yi Zou, Krishnendu Chakrabarty
February 2004 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 3 Issue

1

Full text available: 🔁 pdf(294.46 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

The effectiveness of cluster-based distributed sensor networks depends to a large extent on the coverage provided by the sensor deployment. We propose a virtual force algorithm (VFA) as a sensor deployment strategy to enhance the coverage after an initial random placement of sensors. For a given number of sensors, the VFA algorithm attempts to maximize the sensor field coverage. A judicious combination of attractive and repulsive forces is used to determine the new sensor locations that improve ...

Keywords: Cluster-based sensor networks, cluster head, sensor field coverage, sensor placement, virtual force

4   Session 10: meeting support: FlySPEC: a multi-user video camera system with hybrid human and automatic control
Qiong Liu, Don Kimber, Jonathan Foote, Lynn Wilcox, John Boreczky
December 2002 **Proceedings of the tenth ACM international conference on Multimedia**

Full text available: 🔁 pdf(311.32 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>

FlySPEC is a video camera system designed for real-time remote operation. A hybrid design combines the high resolution of an optomechanical video camera with the wide field of view always available from a panoramic camera. The control system integrates requests from multiple users so that each controls a virtual camera. The control system seamlessly integrates manual and fully automatic control. It supports a range of options from untended automatic to full manual control. The system can also le ...

Keywords: collaborative and automatic camera control, distance learning, gesture based camera control, panoramic video, video communication, video conferencing, video production, webcams

5   Parallel and distributed systems and networking: A particle swarm model for swarm-based networked sensor systems
B. Anthony Kadrovach, Gary B. Lamont
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Full text available: 🔁 pdf(614.37 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Swarm behavior as demonstrated by flocks of birds, schools of fish, and swarms of insects provide a useful method for implementing a distributed network of mobile sensor platforms. Such mobile sensor swarm systems are useful for various search or surveillance activities. Swarm behavior ensures safe separation between swarm members while enforcing a level of cohesion. These two properties, when considered in the context of sensors and wireless communications, provide for low redundancy coverage a ...

Keywords: distributed processing, networking, particle swarms, robotics, wireless

6   Location information: Range-free localization schemes for large scale sensor networks
Tian He, Chengdu Huang, Brian M. Blum, John A. Stankovic, Tarek Abdelzaher
September 2003 **Proceedings of the 9th annual international conference on Mobile computing and networking**

Full text available: 🔁 pdf(278.19 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Wireless Sensor Networks have been proposed for a multitude of location-dependent applications. For such systems, the cost and limitations of the hardware on sensing nodes

prevent the use of range-based localization schemes that depend on absolute point-to-point distance estimates. Because coarse accuracy is sufficient for most sensor network applications, solutions in range-free localization are being pursued as a cost-effective alternative to more expensive range-based approaches. In this pape ...

Keywords: localization, location discovery, positioning, sensor networks

7   A team of robotic agents for surveillance
Paul E. Rybski, Sascha A. Stoeter, Michael D. Erickson, Maria Gini, Dean F. Hougen, Nikolaos Papanikolopoulos
June 2000 **Proceedings of the fourth international conference on Autonomous agents**

Full text available: 🔲 pdf(1.47 MB)   Additional Information: full citation, references, citings, index terms

8   The environment understanding interface: detecting and tracking human activity through multimedia sensors
Steven G. Goodridge
November 1995 **Proceedings of the 1995 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: 🔲 pdf(243.03 KB)   Additional Information: full citation, abstract, references, index terms

A technique for using economical multimedia sensors to autonomously track human beings is presented. A sequence of color images captured from a video camera is processed in real-time to determine target locations. This data may be used to guide a computer-controlled pantilt-zoom camera, and may be fused with sound information to determine the location of a person speaking. Such capabilities are the foundation of what we call the *Environment Understanding Interface*, a new paradigm for huma ...

9   Bayesian approach to sensor-based context awareness
Panu Korpipää, Miika Koskinen, Johannes Peltola, Satu-Marja Mäkelä, Tapio Seppänen
July 2003 **Personal and Ubiquitous Computing**, Volume 7 Issue 2

Full text available: 🔲 pdf(933.60 KB)   Additional Information: full citation, abstract, index terms

AbstractThe usability of a mobile device and services can be enhanced by context awareness. The aim of this experiment was to expand the set of generally recognizable constituents of context concerning personal mobile device usage. Naive Bayesian networks were applied to classify the contexts of a mobile device user in her normal daily activities. The distinguishing feature of this experiment in comparison to earlier context recognition research is the use of a naive Bayes framework, and an exte ...

Keywords: Audio context, Bayesian networks, Context awareness, Context recognition, Mobile computing, Sensor

10 New directions: Towards mobility as a network control primitive
David Kiyoshi Goldenberg, Jie Lin, A. Stephen Morse
May 2004 **Proceedings of the 5th ACM international symposium on Mobile ad hoc networking and computing**

Full text available: 🔲 pdf(487.68 KB)   Additional Information: full citation, abstract, references, index terms

In the near future, the advent of large-scale networks of mobile agents autonomously performing long-term sensing and communication tasks will be upon us. However, using controlled node mobility to improve communication performance is a capability that the mobile networking community has not yet investigated. In this paper, we study mobility as a

network control primitive. More specifically, we present the first mobility control scheme for improving communication performance in such networks. Ou ...

Keywords: mobility control, routing, self-configuration in ad hoc networks

11 <u>A stochastic approach to sensor fusion and perception control</u>   ■
J. L. Desnoyer, O. Dessoude, B. Zavidovique
June 1990 **Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1**
Full text available: pdf(1.18 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Our work deals with robot multisensor perception and perception resources management. We first describe the stochastic model of a n close-field sensors system gathering information about its environment, and explain how Bayesian formalism applies to such a surveillance automaton. The perception control problem is here the dynamic allocation of these sensors to the different sectors of the horizon, in order to optimize the global estimation of the state. The policy that we p ...

12 <u>Surveillance and the reengineering of commitment within the virtual organization</u>   ■
F. A. Wilson, N. N. Mitev
April 1996 **Proceedings of the 1996 ACM SIGCPR/SIGMIS conference on Computer personnel research**
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13 <u>A distributed monitoring mechanism for wireless sensor networks</u>   ■
Chih-fan Hsin, Mingyan Liu
September 2002 **Proceedings of the ACM workshop on Wireless security**
Full text available: pdf(318.53 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

In this paper we focus on a large class of wireless sensor networks that are designed and used for monitoring and surveillance. The single most important mechanism underlying such systems is the monitoring of the network itself, that is, the control center needs to be constantly made aware of the existence/health of all the sensors in the network for security reasons. In this study we present plausible alternative communication strategies that can achieve this goal, and then develop and study in ...

Keywords: monitor and surveillance, security, system design, wireless sensor networks

14 <u>Group H: estimation and detection: Sensing uncertainty reduction using low complexity</u> ■
<u>actuation</u>
Aman Kansal, Eric Yuen, William J. Kaiser, Gregory J. Pottie, Mani B. Srivastava
April 2004 **Proceedings of the third international symposium on Information processing in sensor networks**
Full text available: pdf(357.67 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

The performance of a sensor network may be best judged by the quality of application specific information return. The actual sensing performance of a deployed sensor network depends on several factors which cannot be accounted at design time, such as environmental obstacles to sensing. We propose the use of mobility to overcome the effect of unpredictable environmental influence and to adapt to run time dynamics. Now, mobility with its dependencies such as precise localization and navigation is ...

Keywords: actuation, coverage, environmental obstacles, sensor networks

15 System section: A master-slave system to acquire biometric imagery of humans at distance

Xuhui Zhou, Robert T. Collins, Takeo Kanade, Peter Metes
November 2003 **First ACM SIGMM international workshop on Video surveillance**

Full text available: pdf(591.63 KB)   Additional Information: full citation, abstract, references, index terms

The Distant Human Identification (DHID) system is a master-slave, real-time surveillance system designed to acquire biometric imagery of humans at distance. A stationary wide field of view master camera is used to monitor an environment at distance. When the master camera detects a moving person, a narrow field of view slave camera is commanded to turn to that direction, acquire the target human, and track them while recording zoomed-in images. These zoomed-in views provide meaningful biometric ...

Keywords: biometric imagery, master-slave, motion detection, real-time tracking, video surveillance

16 Military applications: A formation behavior for large-scale micro-robot force deployment

Donald D. Dudenhoeffer, Michael P. Jones
December 2000 **Proceedings of the 32nd conference on Winter simulation**

Full text available: pdf(388.69 KB)   Additional Information: full citation, abstract, references, citings

Micro-robots will soon be available for deployment by the thousands. Consequently, controlling and coordinating a force this large to accomplish a prescribed task is of great interest. This paper describes a flexible architecture for modeling thousands of autonomous agents simultaneously. The agents' behavior is based on a subsumption architecture in which individual behaviors are prioritized with respect to all others. The primary behavior explored in this work is a group formation behavior bas ...

17 TRIP: A Low-Cost Vision-Based Location System for Ubiquitous Computing

Diego López de Ipiña, Paulo R. S. Mendonça, Andy Hopper
January 2002 **Personal and Ubiquitous Computing,** Volume 6 Issue 3

Full text available: pdf(542.64 KB)   Additional Information: full citation, abstract, index terms

Sentient Computing provides computers with perception so that they can react and provide assistance to user activities. Physical spaces are made sentient when they are wired with networks of sensors capturing context data, which is communicated to computing devices spread through the environment. These devices interpret the information provided and react by performing the actions expected by the user. Among the types of context information provided by sensors, *location* has proven to be es ...

18 A survey of image registration techniques

Lisa Gottesfeld Brown
December 1992 **ACM Computing Surveys (CSUR),** Volume 24 Issue 4

Full text available: pdf(5.20 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Registration is a fundamental task in image processing used to match two or more pictures taken, for example, at different times, from different sensors, or from different viewpoints. Virtually all large systems which evaluate images require the registration of images, or a closely related operation, as an intermediate step. Specific examples of systems where image registration is a significant component include matching a target with a real-time image of a scene for target recognition, mon ...

Keywords: image registration, image warping, rectification, template matching

19 Transcendent communication: location-based guidance for large-scale public spaces ■

Hideyuki Nakanishi, Satoshi Koizumi, Toru Ishida, Hideaki Ito

April 2004 **Proceedings of the 2004 conference on Human factors in computing systems**

Full text available: pdf(820.64 KB)   Additional Information: full citation, abstract, references, index terms

Many studies have been conducted on supporting communication in home and office spaces, but relatively few studies have explored supporting communication in large-scale public spaces, despite the importance of such environments in our daily lives. We propose a transcendent means of communication as an emerging style in this pervasive computing era: a system that allows administrative staff to effectively help visitors in large-scale public spaces. The visitors' context is used to provide a bird' ...

Keywords: bird's-eye view, park, public space, simulated space, station, transcendent communication, visual communication

20 Face recognition: A literature survey ■

W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld

December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Full text available: pdf(4.28 MB)   Additional Information: full citation, abstract, references, index terms

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

Keywords: Face recognition, person identification

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1 **Progresses on the design of a surveillance system to protect forests from fire**
Moutinho, J.N.; Mesquita, F.D.; Martins, N.; Araujo, R.E.;
Emerging Technologies and Factory Automation, 2003. Proceedings. ETFA '03 Conference , Volume: 2 , 16-19 Sept. 2003
Pages:191 - 194 vol.2

[Abstract]   [PDF Full-Text (390 KB)]   **IEEE CNF**

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2 **Control of TFTR during DT operations**
Pearson, G.G.; Alling, P.D.; Blanchard, W.; Camp, R.A.; Hawryluk, R.J.; Hose J.C.; Nagy, A.;
Fusion Engineering, 1995. SOFE '95. 'Seeking a New Energy Era'., 16th IEEE/ Symposium , Volume: 1 , 30 Sept.-5 Oct. 1995
Pages:577 - 580 vol.1

[Abstract]   [PDF Full-Text (308 KB)]   **IEEE CNF**

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